

RECEIVED

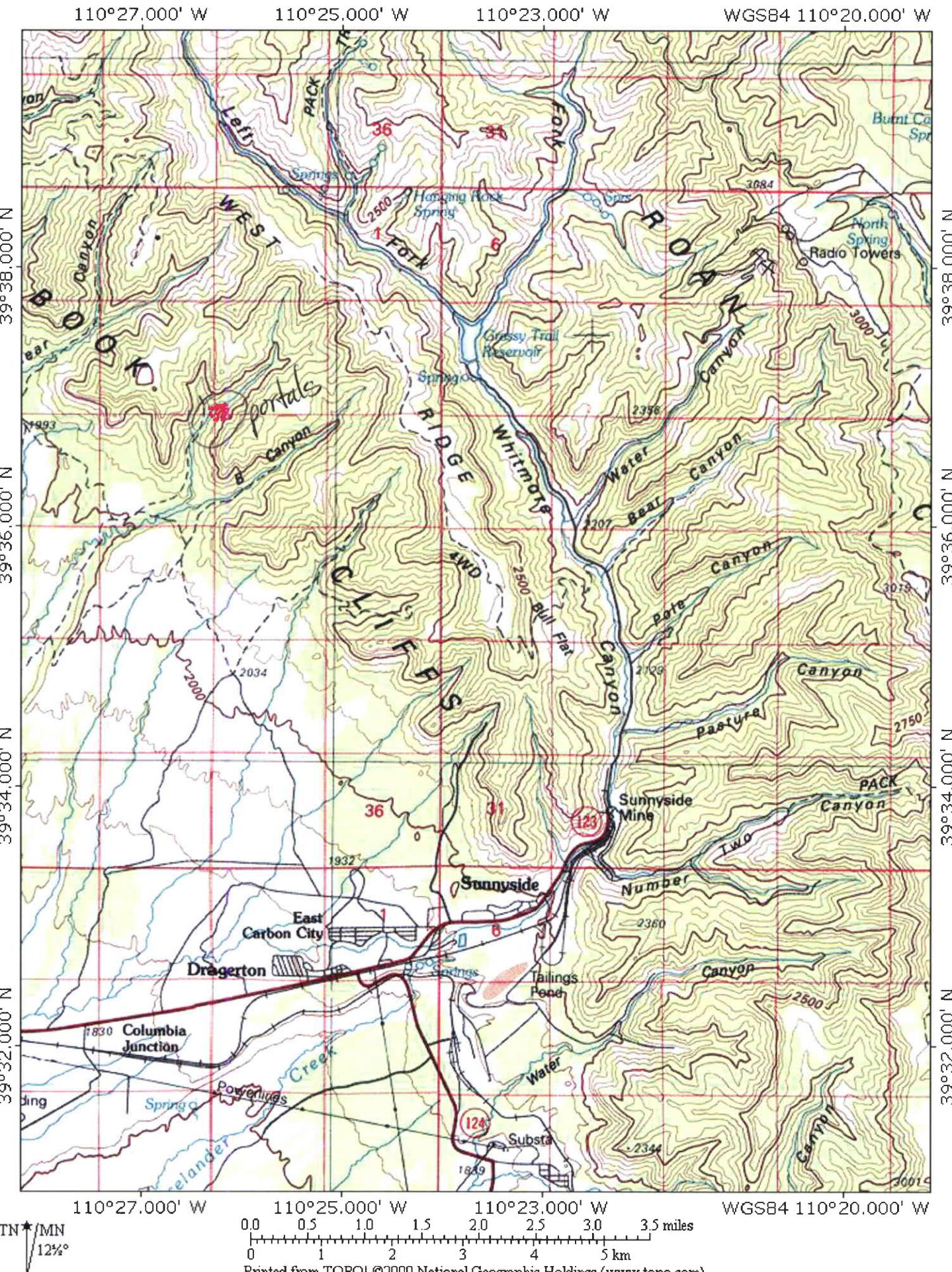
APR 12 2006

DIV. OF OIL, GAS & MINING

GRASSY TRAIL DAM AND RESERVOIR  
MONITORING PROGRAM



Grassy Trail Dam and Reservoir  
Monitoring Program



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# Face of Dam

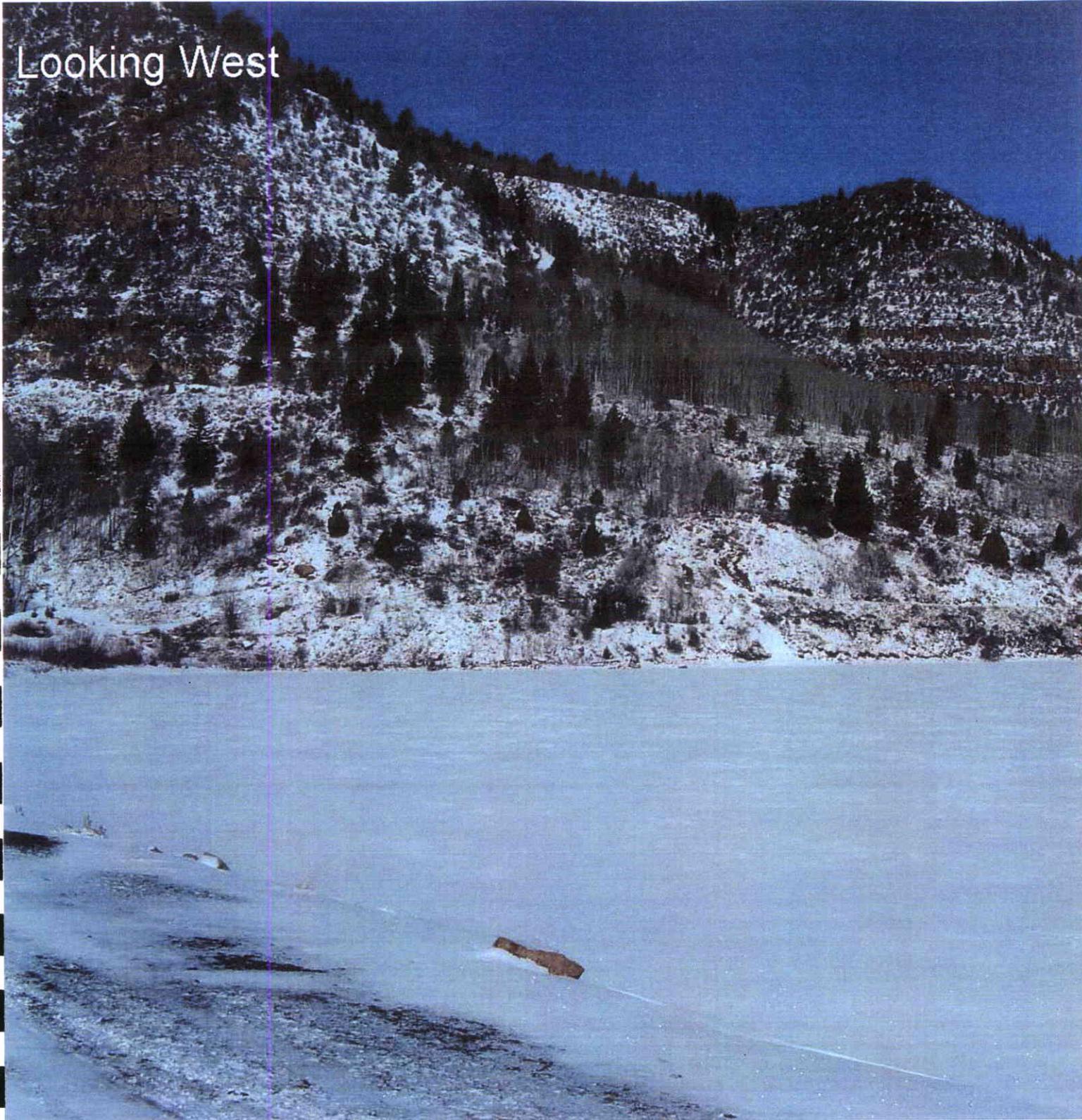


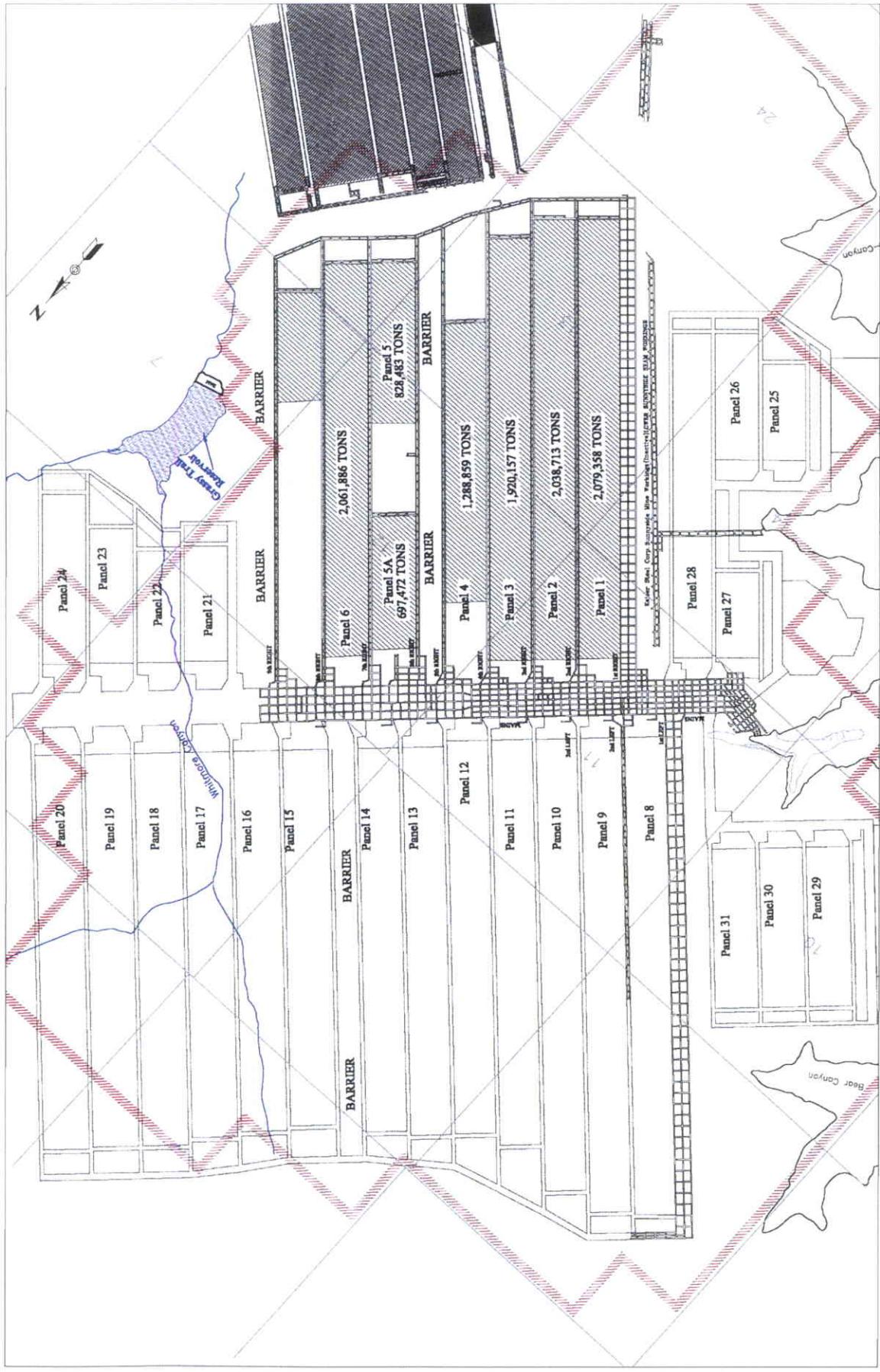
~ 50' High  
~ 700' long

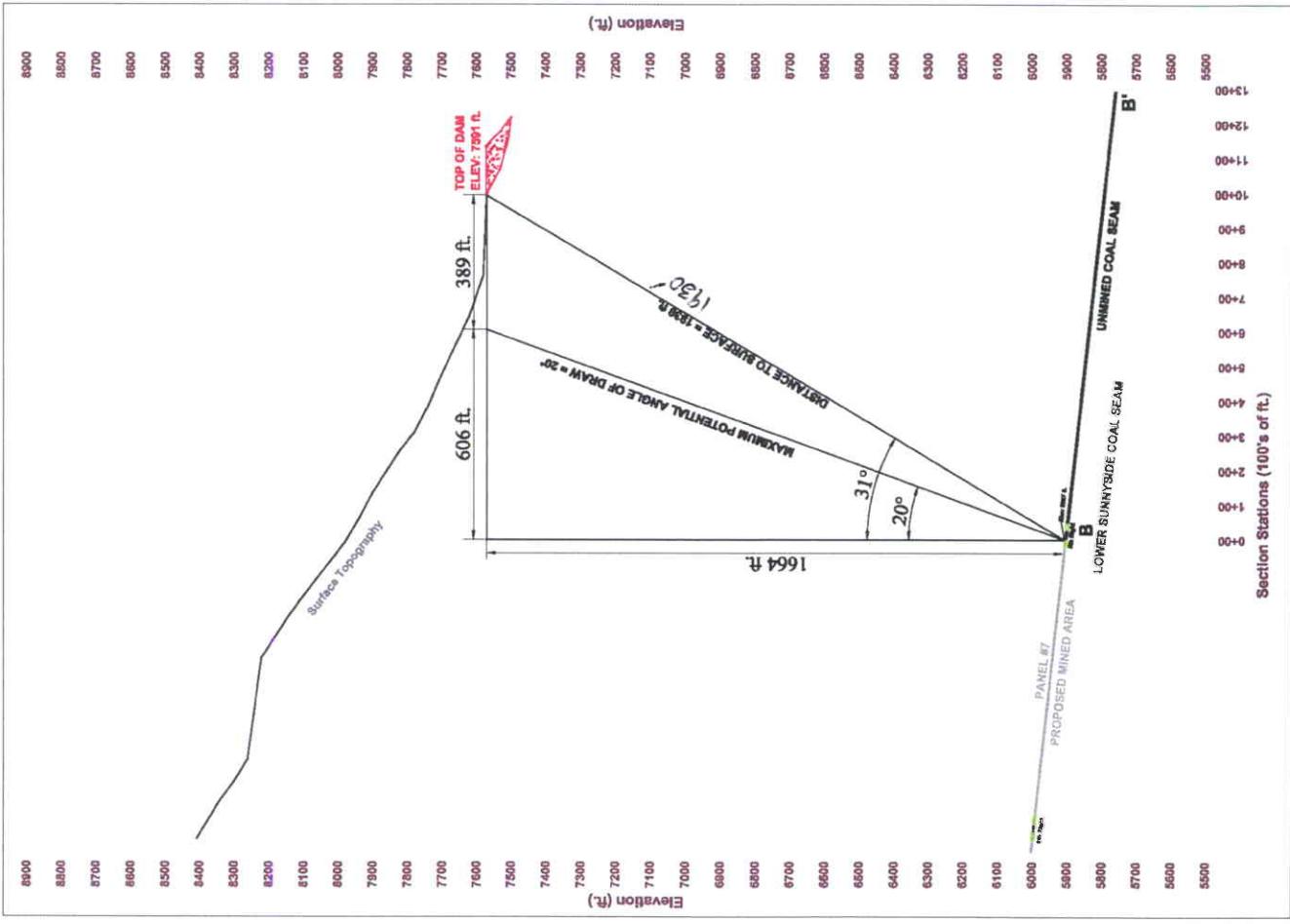
Looking West



Looking West







## Action Plan

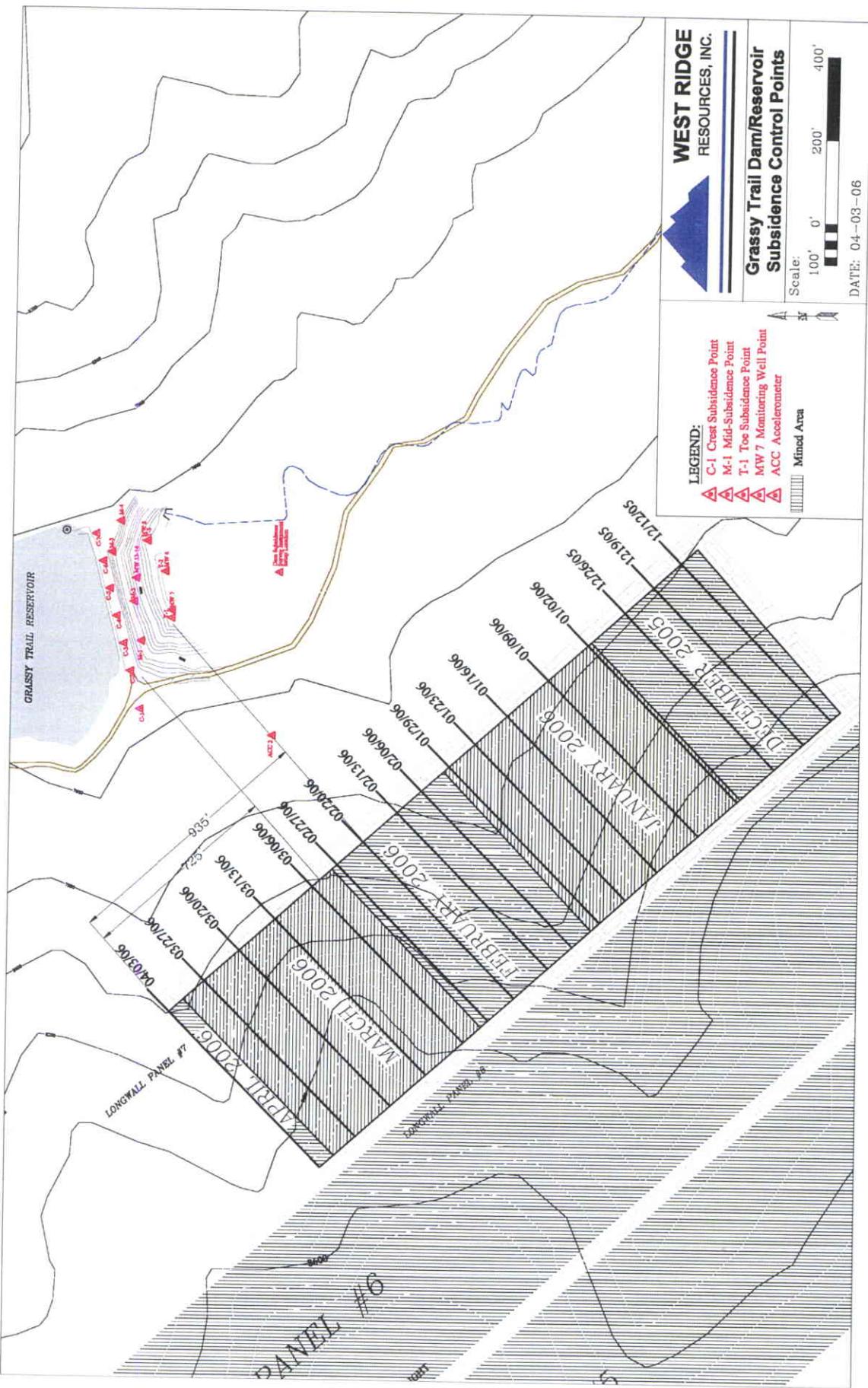
- 1- Initial interagency planning process
- 2- Collection of initial baseline data (Panel #6)
- 3- Prepare preliminary evaluation report (RB&G)
- 4- Interagency review of report; additional requirements
- 5- Collection of additional data
- 6- Prepare final report
- 7- Implement monitoring plan
- 8- Regulatory authority to stop or limit mining activity

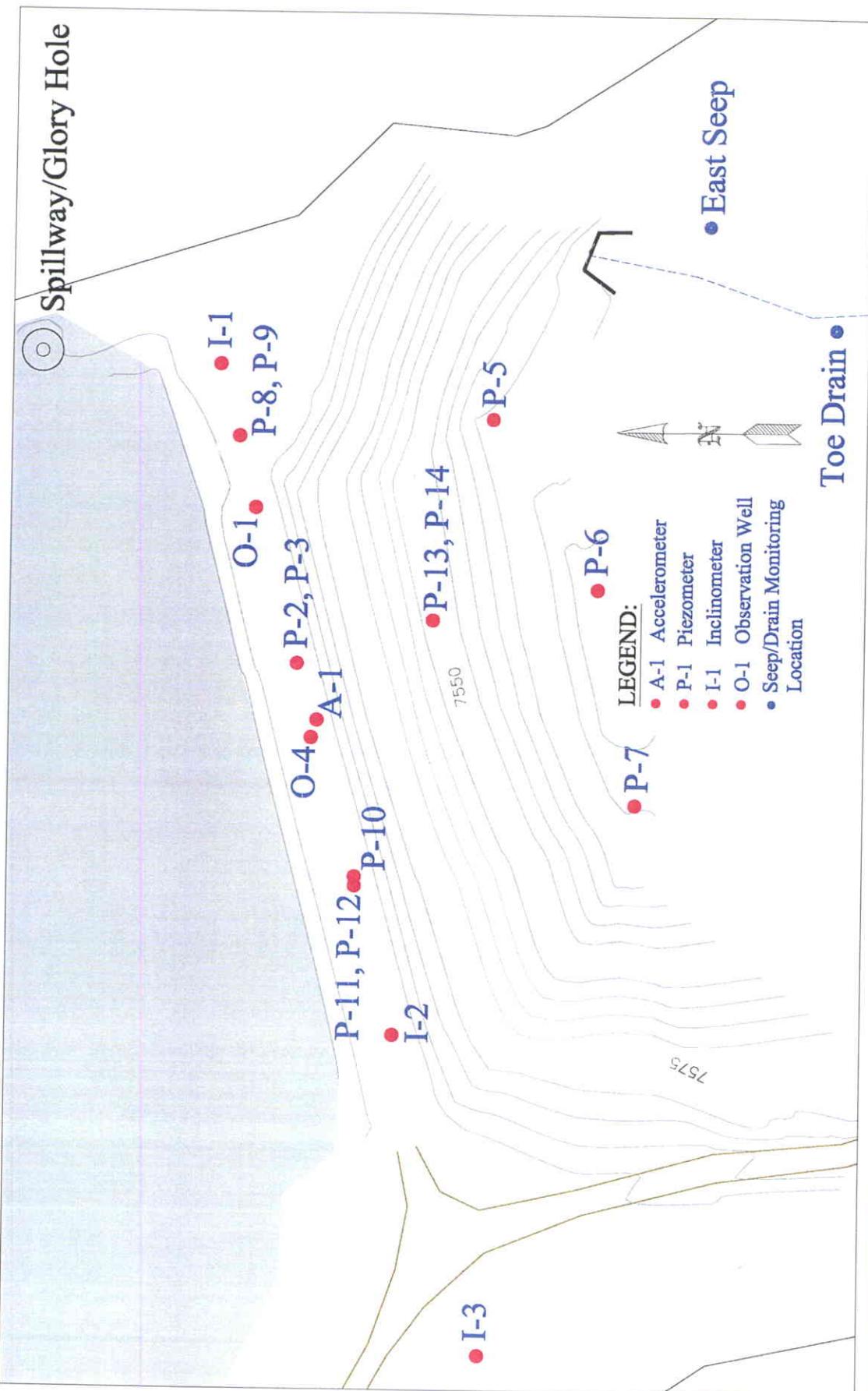
# Participants

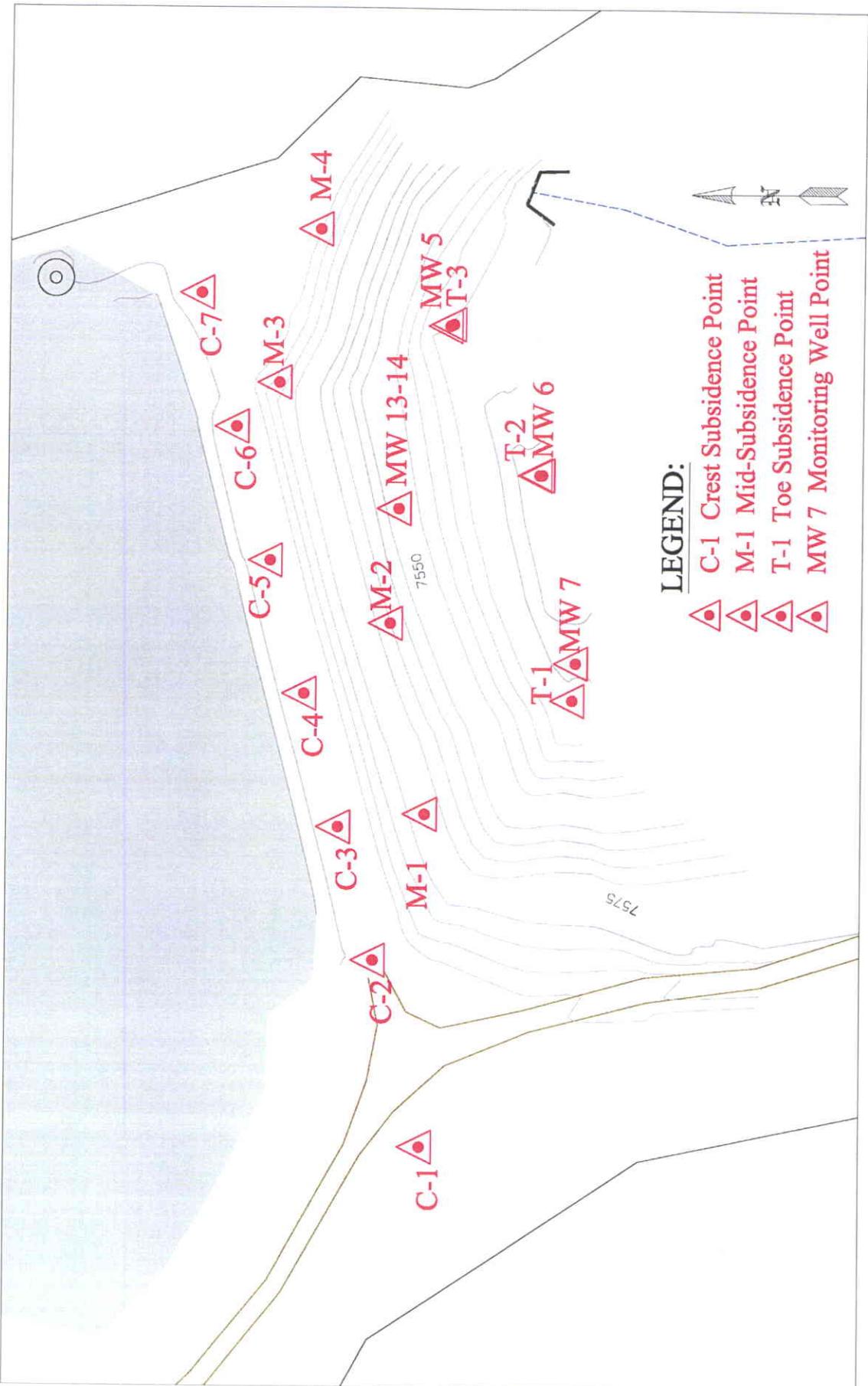
- Bureau of Land Management
- Utah Division of Oil Gas and Mining
- Utah Division of Dam Safety
- East Carbon City
- Sunnyside City
- RB&G Engineering
- West Ridge Resources

## Significant Values

	Seismic Reading	Accelerometer Reading
Typical Max.	2.0	0.02
On-site Recon	3.0	0.20
Study: Max Credible Event	3.9	1.07
Highest Recorded to Date (03/11/06)	2.6	0.268
Closest Mining to Dam (03/05/06)	1.7	0.013







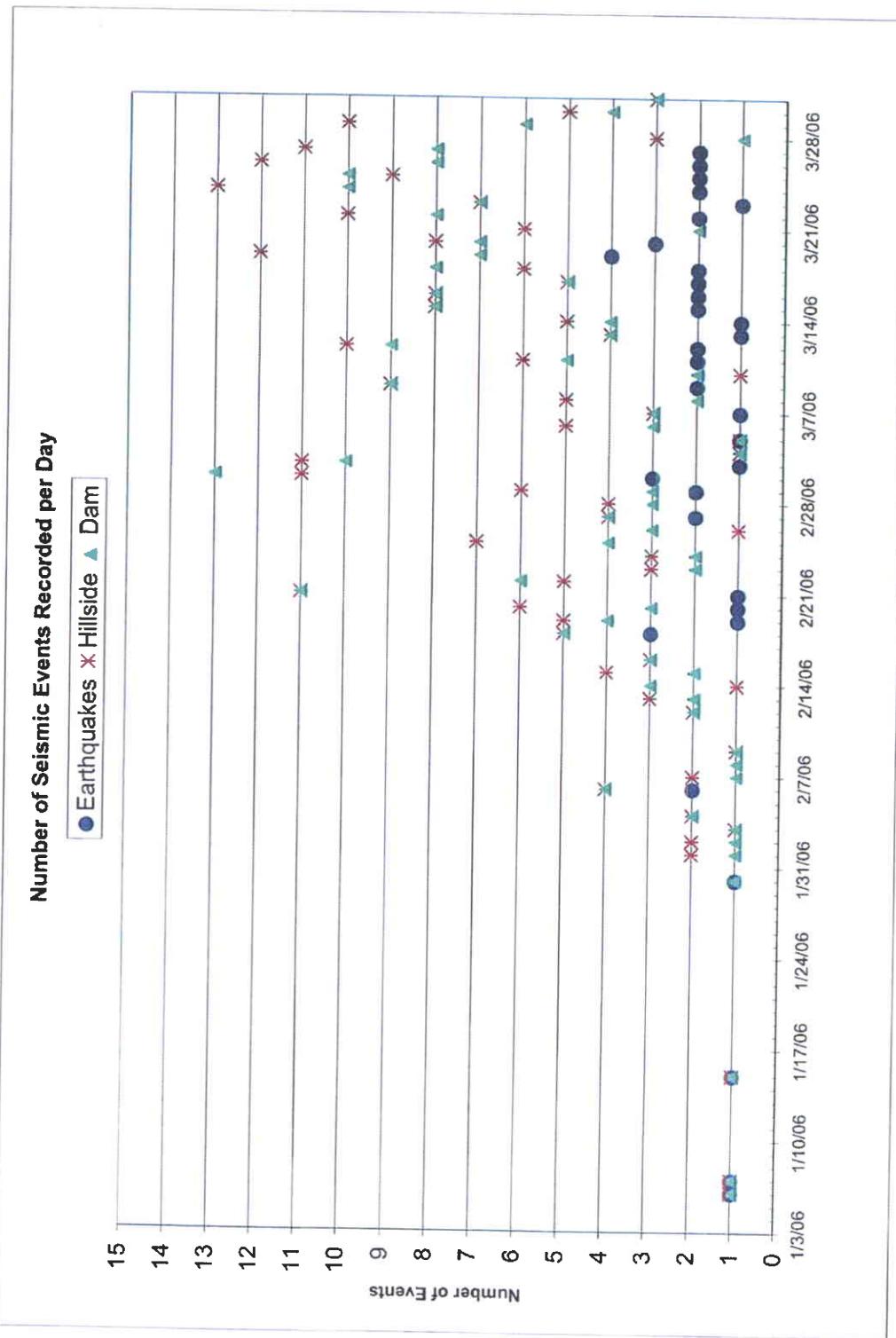
Grassy Trail Dam, Carbon County, Utah  
2006 Hillsides unit #6990 Dam #699

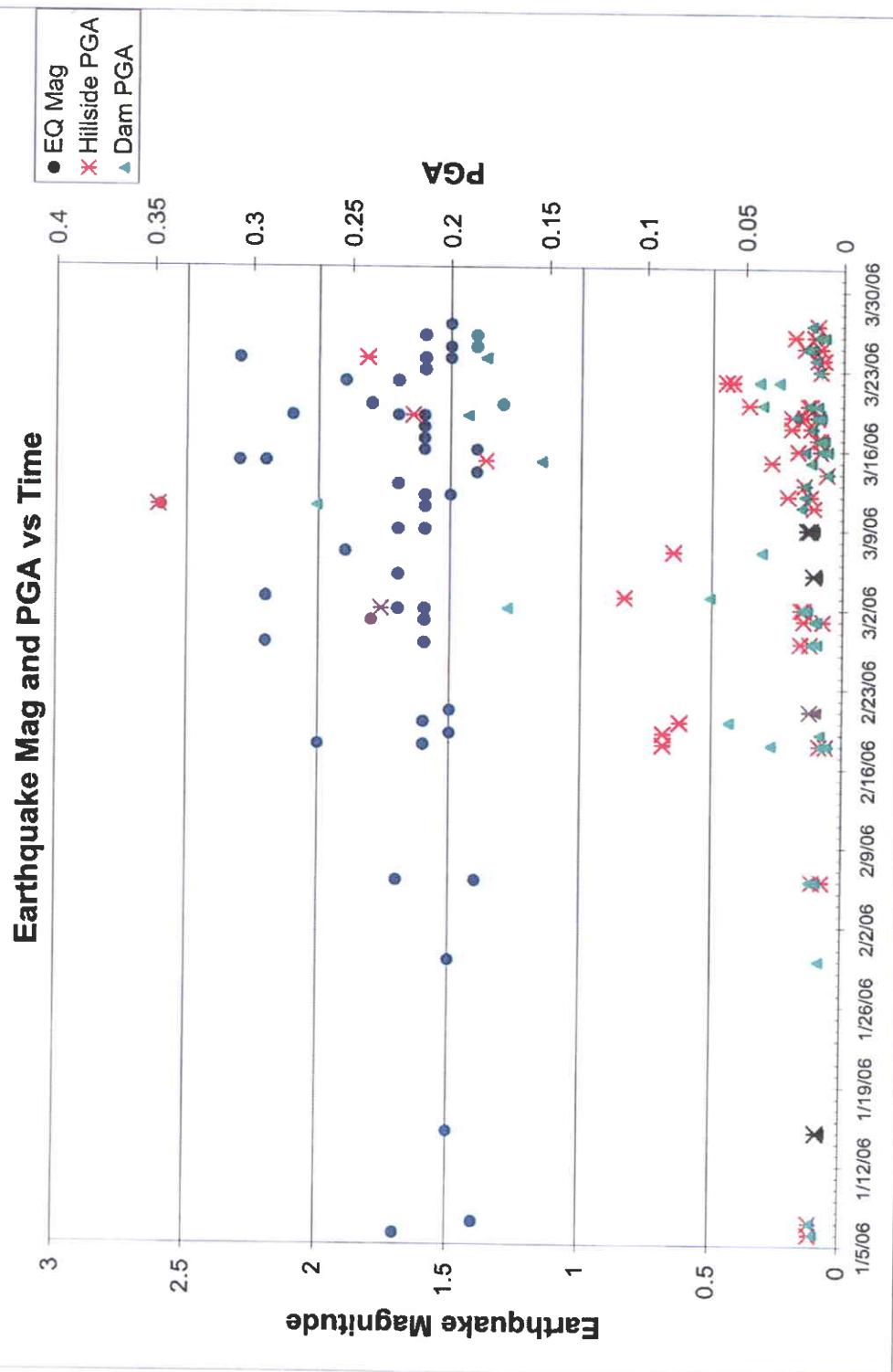
Event Report: Event List - c:blast/even

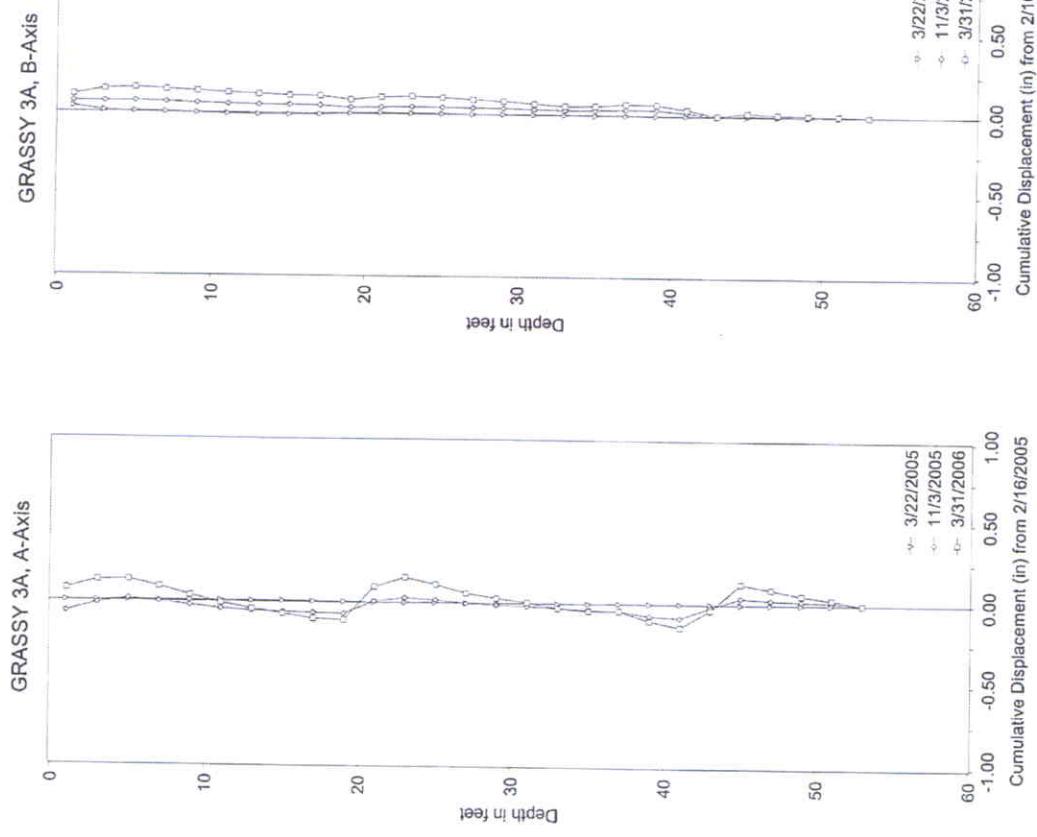
Type	Serial No.	Date/Time	Tran Peak (mm/s)	Vert Peak (mm/s)	PVS 1 (mm/s)	Trigger	Tran Accel (g)	Vert Accel (g)	Long Accel (g)	Description	Post Event first line
LOG	BE699	Mar 24/06 09:26:18	***	***	***	***	***	***	***	***	Start Monit Start Monit
LOG	BE690	Mar 24/06 10:36:57	***	***	***	***	***	***	***	***	Start Monit Start Monit
W	BE689	Mar 24/06 11:06:33	0.571	0.387	0.619	0.695	Long	0.00863	0.0133	0.0133	Start Monitoring Grassy Tr. Dam
W	BE690	Mar 24/06 11:06:33	0.571	0.387	0.619	0.695	Long	0.00863	0.0133	0.0133	Start Monitoring Grassy Tr. Dam
LOG	BE699	Mar 24/06 11:19:04	0.349	0.302	0.651	0.652	Long	0.00497	0.00497	0.00497	No events
LOG	BE690	Mar 24/06 11:19:04	0.349	0.302	0.651	0.652	Long	0.00497	0.00497	0.00497	No events
W	BE690	Mar 24/06 11:45:31	1.14	1.02	1.57	1.75	Vert	0.00934	0.00829	0.0116	Start Monitoring Grassy Tr. Dam
W	BE680	Mar 24/06 11:45:32	0.873	0.607	1.70	1.73	Vert	0.00663	0.00894	0.00894	Hillside
W	BE689	Mar 24/06 13:22:43	0.482	0.381	0.603	0.680	Long	0.00663	0.00497	0.0133	Grassy Tr. Dam
W	BE690	Mar 24/06 13:22:44	0.651	0.286	0.841	0.961	Long	0.00663	0.00863	0.00663	Hillside
W	BE689	Mar 24/06 13:36:08	0.254	0.317	0.746	0.782	Long	0.00663	0.00863	0.0149	Grassy Tr. Dam
W	BE690	Mar 24/06 14:44:45	0.524	0.270	0.825	0.835	Long	0.00663	0.00863	0.00663	Hillside
W	BE690	Mar 24/06 16:18:30	0.698	0.238	0.635	0.750	Long	0.00663	0.00863	0.00663	Hillside
W	BE689	Mar 24/06 16:18:59	0.984	0.321	1.90	2.10	Vert	0.00934	0.00829	0.0149	Grassy Tr. Dam
W	BE690	Mar 24/06 16:17:00	0.873	0.569	1.98	1.99	Vert	0.00829	0.00894	0.0133	Hillside
W	BE689	Mar 24/06 16:43:18	0.506	0.206	0.619	0.626	Long	0.00663	0.00863	0.0133	Grassy Tr. Dam
W	BE690	Mar 24/06 17:30:54	0.925	0.657	1.32	1.48	Vert	0.00829	0.00829	0.0149	Hillside
W	BE689	Mar 24/06 18:11:04	1.03	0.635	1.89	1.98	Vert	0.00829	0.00829	0.0084	Grassy Tr. Dam
W	BE690	Mar 24/06 18:11:04	0.492	0.348	0.778	0.819	Long	0.00663	0.00863	0.00829	Hillside
W	BE689	Mar 24/06 20:41:54	0.673	0.778	1.16	1.36	Vert	0.00829	0.00863	0.0116	Grassy Tr. Dam
W	BE690	Mar 24/06 20:41:55	0.683	0.556	1.37	1.37	Long	0.00663	0.00863	0.00863	Hillside
W	BE689	Mar 24/06 20:47:49	0.619	0.317	0.549	0.725	Tran	0.00829	0.00893	0.0133	Grassy Tr. Dam
W	BE690	Mar 24/06 20:47:50	0.429	0.540	0.825	0.950	Long	0.00497	0.00829	0.00663	Hillside
W	BE690	Mar 25/06 12:09:20	0.556	0.444	0.873	0.916	Vert	0.00829	0.00863	0.0133	Grassy Tr. Dam
W	BE689	Mar 25/06 12:35:37	0.317	0.655	0.657	0.657	Long	0.00663	0.00863	0.0149	Hillside
W	BE689	Mar 24/06 22:38:18	20.9	13.8	17.4	30.4	Vert	0.182	0.0762	0.118	Grassy Tr. Dam
W	BE690	Mar 24/06 22:38:19	7.94	4.34	18.3	24.2	Vert	0.182	0.0762	0.118	Hillside
W	BE689	Mar 25/06 06:46:51	0.571	0.365	0.825	0.864	Long	0.00663	0.00863	0.0131	Grassy Tr. Dam
W	BE690	Mar 25/06 10:09:59	0.685	0.222	0.635	0.645	Long	0.00663	0.00863	0.00863	Hillside
W	BE689	Mar 25/06 10:26:20	1.14	1.27	1.81	2.16	Vert	0.0133	0.0133	0.0149	Grassy Tr. Dam
W	BE690	Mar 25/06 10:26:21	1.71	1.10	2.36	2.47	Vert	0.016	0.00994	0.0190	Hillside
W	BE690	Mar 25/06 12:09:20	0.556	0.349	0.873	0.916	Long	0.00829	0.00863	0.0149	Grassy Tr. Dam
W	BE689	Mar 25/06 13:43:55	0.683	0.460	0.667	0.667	Long	0.00829	0.00863	0.00829	Hillside
W	BE690	Mar 25/06 13:43:56	0.651	0.365	1.08	1.08	Vert	0.0182	0.00829	0.00829	Grassy Tr. Dam
W	BE689	Mar 25/06 14:36:46	1.13	1.14	1.67	1.83	Vert	0.00994	0.00863	0.0166	Hillside
W	BE690	Mar 25/06 14:36:47	1.11	0.794	1.97	2.04	Vert	0.00829	0.00863	0.00863	Grassy Tr. Dam
W	BE689	Mar 25/06 14:36:47	0.714	0.397	0.444	0.805	Tran	0.0133	0.00994	0.0190	Hillside
W	BE690	Mar 25/06 14:36:48	1.14	1.27	1.81	2.16	Vert	0.016	0.00994	0.0190	Grassy Tr. Dam
W	BE689	Mar 25/06 17:53:24	0.857	0.429	0.714	0.954	Long	0.00829	0.00863	0.0149	Hillside
W	BE689	Mar 25/06 17:53:24	0.444	0.385	0.873	0.882	Long	0.00663	0.00863	0.0166	Grassy Tr. Dam
W	BE689	Mar 25/06 18:35:16	0.683	0.413	0.619	0.683	Long	0.00863	0.00863	0.0116	Hillside
W	BE689	Mar 25/06 18:35:16	0.778	0.381	0.889	0.956	Long	0.00863	0.00863	0.0166	Grassy Tr. Dam
W	BE689	Mar 25/06 18:58:36	0.258	0.302	0.762	0.772	Long	0.00863	0.00863	0.00829	Hillside
W	BE690	Mar 25/06 18:47:45	0.685	0.270	0.825	0.838	Long	0.00863	0.00863	0.0149	Grassy Tr. Dam
W	BE689	Mar 25/06 19:50:49	1.90	1.14	1.49	2.02	Vert	0.00994	0.00863	0.00994	Hillside
W	BE690	Mar 25/06 19:50:49	2.94	1.83	2.36	2.79	Vert	0.00994	0.00863	0.0149	Grassy Tr. Dam
W	BE689	Mar 26/06 12:38:30	0.413	0.317	0.651	0.656	Long	0.00663	0.00863	0.00663	Hillside
W	BE689	Mar 26/06 13:00:48	0.730	0.524	1.19	1.28	Long	0.00863	0.00863	0.0190	Grassy Tr. Dam
W	BE689	Mar 26/06 08:22:06	0.568	0.651	1.05	1.13	Vert	0.00663	0.00863	0.00828	Hillside
W	BE690	Mar 26/06 08:37:25	0.270	0.302	0.698	0.739	Long	0.00863	0.00863	0.00863	Hillside
W	BE690	Mar 26/06 08:37:38	0.413	0.333	0.720	0.778	Long	0.00497	0.00863	0.00863	Grassy Tr. Dam
W	BE689	Mar 26/06 10:24:49	1.21	1.49	2.02	2.22	Vert	0.00994	0.0116	0.0133	Hillside
W	BE690	Mar 26/06 10:24:50	1.56	0.937	2.07	2.79	Vert	0.00994	0.00863	0.0149	Grassy Tr. Dam
W	BE689	Mar 26/06 12:38:30	0.413	0.317	0.651	0.656	Long	0.00663	0.00863	0.00663	Hillside
W	BE689	Mar 26/06 13:00:48	0.730	0.524	1.19	1.28	Long	0.00863	0.00863	0.0190	Grassy Tr. Dam
W	BE689	Mar 26/06 13:23:41	0.619	0.651	1.05	1.13	Vert	0.00663	0.00863	0.00828	Hillside
W	BE690	Mar 26/06 13:23:41	0.746	0.508	1.17	1.25	Long	0.00863	0.00863	0.0116	Grassy Tr. Dam
W	BE689	Mar 26/06 13:32:11	0.302	0.333	0.730	0.772	Long	0.00863	0.00863	0.00829	Hillside
W	BE690	Mar 26/06 13:32:11	0.540	0.566	0.857	0.978	Long	0.00863	0.00863	0.00894	Grassy Tr. Dam
W	BE689	Mar 26/06 15:41:53	0.635	0.381	1.06	1.11	Long	0.00863	0.00863	0.00663	Hillside
W	BE689	Mar 26/06 15:41:53	0.635	0.381	0.784	0.830	Long	0.00863	0.00863	0.00829	Grassy Tr. Dam
W	BE689	Mar 26/06 15:45:56	1.03	1.03	1.65	1.79	Vert	0.0116	0.00994	0.0149	Hillside
W	BE690	Mar 26/06 15:45:56	0.714	0.714	1.64	1.68	Vert	0.00829	0.00894	0.00894	Hillside

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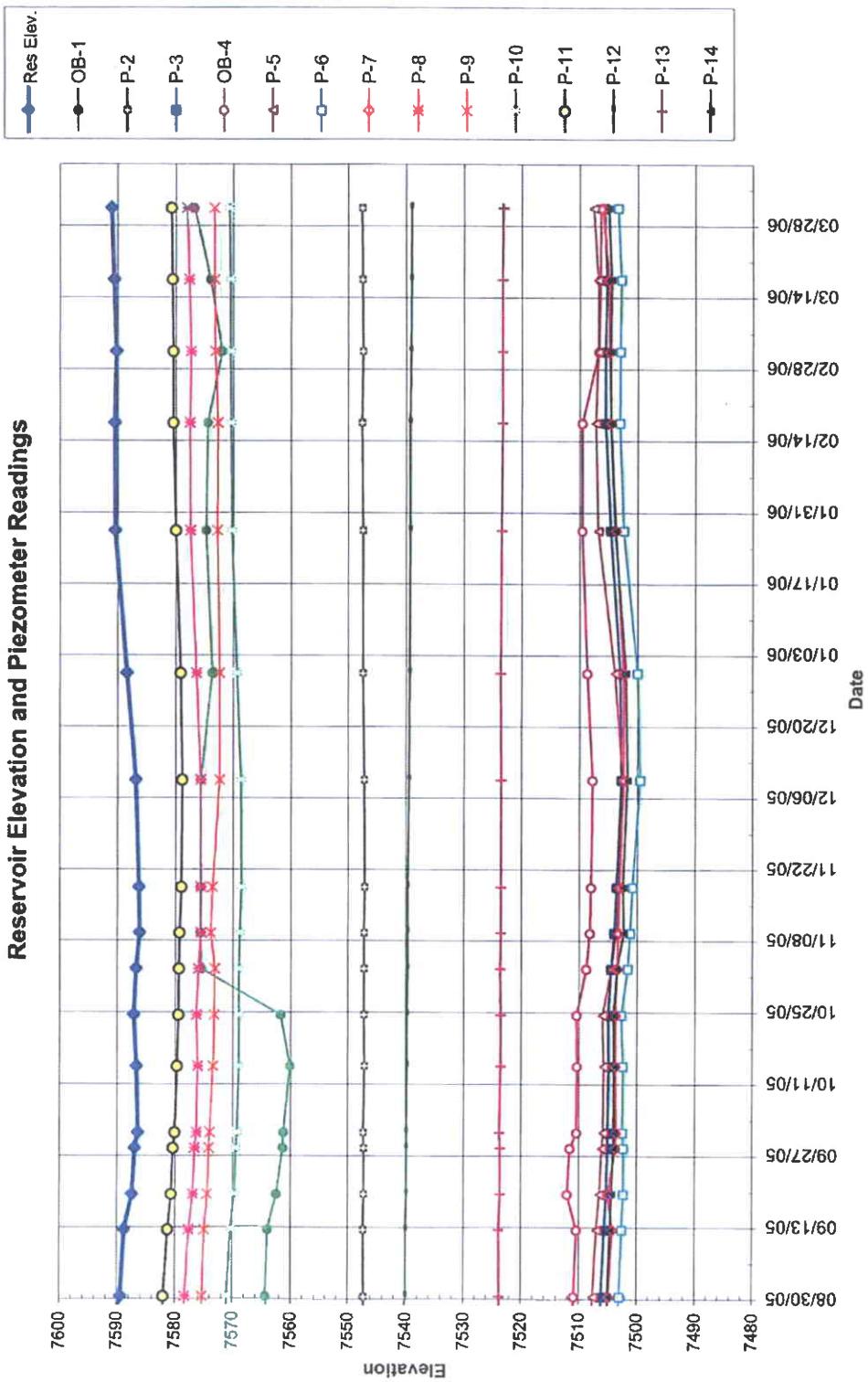
-30 degree skew

## GRASSY TRAIL DAM PIEZOMETER & OBSERVATION WELL READINGS

GRASSY TRAIL DAM PIEZOMETER & OBSERVATION WELL READINGS													
DATE		READINGS AT RIVER ELEV.		05-2		05-3		05-4		05-5		05-6	
Dam Crest Elev. (ft)	7600.0	PIEZ.	5+62	PIEZ.	79-4	PIEZ.	98-3	PIEZ.	79-3	PIEZ.	98-2	PIEZ.	98-4
Spillway Elev. (ft)	7592.5	O.W.	5+15	PIEZ.	4+14	PIEZ.	3+63	PIEZ.	2+77	PIEZ.	2+71	PIEZ.	2+65
Rim Elev. (ft)	7601.8	1	8	9	2	3	13	4	10	5	6	7	PIEZ
Tip Elev. (ft) (actual)		7601.5	7554.5	7535.1	7491.8	7525.4	7491.0	7521.0	7558.9	7601.7	7538.8	7512.0	7519.5
Piezometer Location		CREST	CREST	CREST	CREST	CREST	CREST	CREST	7498.5	7550.8	7520.0	7529.5	7519.0
Date	Initials	Reservoir Elevation	(ft)	110'	110'	76.2'	76.2'	110.7"	110"	110"	110"	TOE	TOE
			(47')	(65.4')	(65.4')	(76.3')	(76.3')	(59.4')	(59.4')	(51')	(29.7')	FOUND	FOUND
8/30/05	LW	-35"	23.2	26.2	37.4	54.5	95.6	35.2	53.8	90.9	30.8	19.6	61.7
9/12/05	LW	-44"	23.9	26.6	37.8	54.4	96.1	35.1	54.3	91.3	31.5	20.4	61.7
9/19/05	DC	-59"	24.6	27.1	39.3	54.5	96.4	35.3	54.5	89.7	32.1	21.0	61.8
9/26/05	LW	-65"	24.9	27.4	40.4	54.5	96.6	35.3	54.8	90.2	32.3	21.3	61.8
10/7/05	WD	-72"	25.2	27.6	40.5	54.4	96.6	35.2	54.8	91.3	32.5	21.6	61.8
10/14/05	LW	-69"	25.4	28.1	41.6	54.6	96.8	35.4	54.9	91.4	32.8	22.0	61.9
10/21/05	WD	-63"	26.2	28.3	40.0	54.5	96.7	35.4	54.8	91.3	32.8	22.2	61.8
11/1/05	WD	-68"	25.5	28.4	26.2	54.5	97.2	35.3	55.4	93.0	32.8	22.3	62.0
11/7/05	LW	-75"	26.0	27.7	26.7	54.5	97.7	35.4	56.6	93.6	33.0	22.4	62.0
11/14/05	WD	-73.5"	26.0	28.0	26.1	54.6	98.1	35.4	56.4	93.8	33.2	22.7	62.0
12/9/05	MKS	-66.5" ice	25.9	29.2	26.1	54.5	98.9	35.4	57.2	94.0	33.1	22.8	62.2
12/30/05	MKS	-48" ice	25.1	29.2	28.1	54.3	98.7	35.3	56.9	93.1	32.4	22.5	62.3
1/17/06	MKS	-24" ice	24.1	28.8	27.0	54.3	97.0	35.5	55.0	92.2	31.5	21.7	62.4
2/17/06	MNH	-23" ice	24.0	28.9	27.3	54.1	96.1	35.6	54.2	92.2	31.4	21.2	62.4
3/3/06	MNH	-27" ice	24.2	28.4	29.8	54.3	96.1	35.6	54.2	95.0	31.3	21.2	62.5
3/17/06	MNH	-22" ice	23.9	28.3	27.8	54.2	96.4	35.6	54.4	95.3	31.3	21.1	62.6
3/31/06	MNH	-17" ice	23.5	28.3	25.0	54.2	96.0	35.8	53.9	95.4	31.1	21.0	62.7

## Grassy Trail Dam

### Reservoir Elevation and Piezometer Readings



**RB&G  
ENGINEERING  
INC.**  
Provo, Utah

Figure      Reservoir Elevation and Piezometer Readings  
August 30, 2005 to March 31, 2006  
Grassy Trail Dam and Reservoir

GRASSY TRAIL DAM SEEPAGE READINGS

GRASSY TRAIL DAM SEEPAGE READINGS										
Dam Crest Elev. (ft)	7600.0	Spillway Elev. (ft)	7592.5	Spill Location	Reservoir Elevation	Reservoir Characteristics	Water Characteristics (GAL/MIN)	Water Characteristics (GAL/MIN)	Water Characteristics (GAL/MIN)	Weather Conditions
11/08/05	JDS	7586.38			Dry		14.3	Clear	0.1	Slightly Overcasted
11/16/05	JDS	7586.38			Dry		14.3	Frozen		Clear and Sunny
11/23/05	JDS	7585.79			Dry		13.5	Clear		Clear, Sunny Breezy
11/28/05	JDS	7586.82			Frozen~2.5" of ice		13.5	Clear		Cloudy
12/07/05	JDS	7587.71	See Note		Froze		13.5	Clear		Clear and Sunny
12/14/05	JDS	7587.29	See Note		Frozen		13.5	Clear		Clear and Sunny
12/21/05	JDS	7587.65	See Note		Frozen		14.3	Clear		Clear and Sunny
12/28/06	RAJN	7588.31	See Note		Frozen		15.9	Clear		Slightly Overcasted
01/04/06	JDS	7588.94	See Note		Frozen		16.2	Clear		Slightly Overcasted
01/11/06	JDS	7589.48	See Note		Frozen		16.3	Clear		Cloudy
01/17/06	JDS	7590.00	See Note		Frozen		16.6	Clear		Clear and Sunny
01/25/06	JDS	7590.50	See Note		Frozen		17.4	Clear		Clear and Sunny
01/31/06	JDS	7590.52	See Note		Frozen		19.0	Clear		Clear and Sunny
02/08/06	JDS	7590.50	See Note		Frozen	1.0	Clear	20.1	Clear	Clear and Sunny
02/15/06	JDS	7590.44	See Note		Frozen	2.0	Clear	20.3	Clear	Clear and Sunny
02/22/06	JDS	7590.42	See Note		Frozen	1.5	Clear	19.5	Clear	Slightly Overcasted
03/01/06	JDS	7590.40	See Note		Frozen	1.5	Clear	18.2	Clear	Clear and Sunny
03/08/06	JDS	7590.40	See Note		Frozen	1.5	Clear	18.2	Clear	Cloudy and Light Snow
03/15/06	JDS	7590.54	See Note		Frozen	1.3	Clear	18.4	Clear	Slightly Overcasted
03/21/06	JDS	7590.50	See Note		Frozen	1.3	Clear	18.3	Clear	Windy and Snowing
03/28/06	JDS	7590.35	See Note		Frozen	1.3	Clear	17.9	Clear	Windy and Light Snow
04/06/06	JDS	7590.44	See Note		Frozen	5.2	Clear	17.9	Clear	Heavy Snow

NOTE: Elevation measured taken at ice

## GRASSY TRAIL DAM MONITORING/INSPECTION PLAN, PANEL #7

- *Prior to longwall mining of Panel No. 7 additional subsidence control monuments will be established across the crest of the dam on 100' centers, across the face of the dam midway down the slope on 200' centers, and along the toe of the dam on 200' centers.*
- *Prior to longwall mining the upper hillside accelerometer will be removed, recalibrated, and relocated at the dam. The dam site accelerometer will be removed, recalibrated, and relocated at a new location on the hillside approximately midway between the dam and the previous upper hillside location.*
- *Prior to longwall mining a seepage collection system will be installed at the seep area located along the east abutment of the dam. This system will be designed to collect the entire flow of the seep to a common point to allow accurate measurement of the seepage flow.*
- *Prior to longwall mining a complete set of premining baseline data will be established including:*
  - Peizometer readings.*
  - Accelerometer readings.*
  - Inclinometer readings.*
  - Relative elevations of all subsidence monitoring monuments located on the dam. (Absolute elevations of all monuments will be surveyed before and after extraction of longwall Panel No. 7)*
  - Flow rates at the east abutment seep, west abutment seep, and toe drain.*
  - Visual inspection of the dam, seeps, and slide area.*
  - Electronic photographs at predetermined designated viewpoints.*
- *RB&G will be responsible for compiling and distributing the following weekly, monthly, and event-driven inspection and monitoring reports. These reports will be generated in an electronic format and emailed on a timely basis to the Division of Dam Safety, Division of Oil, Gas & Mining, Bureau of Land Management, East Carbon City, Sunnyside City, and WEST RIDGE Resources (herein after referred to as the designated parties).*
- ***Weekly basis:** After longwall mining has commenced in Panel No. 7 the following monitoring will be done on a weekly basis:*
  - Site reconnaissance/visual inspection (weekly inspections will be done by the same individual from WEST RIDGE Resources to ensure consistency of visual observation interpretations).*

- Electronic photographs from predetermined viewpoints.
- Flow rates at the east seep, west seep, and toe drain. (These flow rates will be determined by actual measurements not by visual estimates.)
- Reservoir level.
- Electronic reports including all reading and photos will be emailed immediately after the inspection to the designated parties.

- **Monthly basis:** In addition to the weekly monitoring the following monitoring will be conducted on a monthly basis:
  - Accelerometer readings This information will be downloaded by RB&G and attached to the monthly summary.
  - Piezometer readings (to be taken by RB&G)
  - Inclinometer readings (to be taken by RB&G)
  - Relative elevations of subsidence monitoring monuments located on the dam. These surveys will be conducted by a registered professional surveyor.
  - Electronic reporting (emails) of the monthly measurements will be combined with the fourth weekly inspection report sent to the designated parties.
- **Event-driven basis:** In addition to the weekly and monthly inspections the following measures will be taken on an event-driven basis:
  - The University of Utah seismic readings will be monitored on a daily basis, if any events are recorded greater than a magnitude 3.0 within 5 miles of the dam then, within 24 hours of such readings, a full site reconnaissance and visual inspection will be conducted, and accelerometer readings will be taken. If the accelerometer readings show any value greater than 0.2g then inclinometer readings, piezometer readings and drainflow measurements (east seep, west seep, and toe drain) will be taken at that time. The results of these measurements will be emailed immediately to all designated parties.
- The standardized form of the inspection/monitoring reports is included in Appendix 1-17.
- Monitoring and reporting will continue on the prescribed weekly, monthly, and event driven basis during the mining of Panel No. 7 as long as seismic events continue to be recorded. At such time that the frequency and magnitude of the events diminishes sufficiently the agencies (Dam Safety, DOGM, BLM, East Carbon City, and Sunnyside City) will make a collective consensus determination to reduce, modify, and/or eliminate the various elements of the monitoring program.

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